ATTACHMENT 5

June 2009 - Groundwater Sample Information Sheets

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E-001/003
Sample I.D.: MW-146	Well Location:
Well Material Inside Diameter, in. Stick up or stick down height Total depth of well (TD) Depth to product Depth to water (DTW) Monitoring Well Data (PVC/SS/Teflo (1246) (1246) 23.12	Sample Types (circle all applicable) Monitoring Well Grab/Composite Split Sample Duplicate (Duplicate ID:) MS/MSD Other
Conventional sampling ←OR⇒	Micropurge sampling
Height of water column (H = TD - DTW) Conversion value (CV)* x 1 Well volume = H x CV = ga 3 Well volumes = ga Purge method	Depth of pump placement (place mid-screen) Bubbles purged from flow cell? Is drawdown >0.3 feet Was passive sampling used? Flowrate = mL/m ID number from controller console #
Field Test(s) Stability Result Result Performed Range (3 min) (6 m Temperature (°C) +/- 3% 20.0 % [5] Spec. Cond (μmhos) +/- 3% 0.8(9 0.8(9 D.O. (mg/L) +/- 10%** (0.91 3.3 pH +/- 0.1 7.13 6.9 ORP (mV) +/- 10 mV** [58.3] 6.3 Turbidity (NTU) +/- 10%** - - H ₂ S (mg/L) - - - Fe ²⁺ (mg/L) - - - Check stability after three readings and every reading -	in) (9 min) (12 min) (15 min) (18 min) (21 min) 70 18.18 08 0.86 13 2.43 9 6.91 6 164.4
**Only one of these parameters must reach stability. Observations: Volume of water purged from well: 19,5 gallons	Time: <u>IΨ</u> : <u>LO</u> (military time) YES NO method: 0.45 μm cartridge / other: tration: <u>NA</u> NO explain:

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E-001/003
Sample I.D.: MW- 160	Well Location:
Well Material Inside Diameter, in. Stick up or stick down height Total depth of well (TD) Depth to product Depth to water (DTW) Monitoring Well Data (PVC/SS/Tefle (1 2 4 6) (1 2 4 6) (1 2 4 6) (1 2 7 6) (1 2 7 7)	Sample Types (circle all applicable) Monitoring Well Grab/Composite Split Sample Duplicate (Duplicate ID:) MS/MSD Other
Conventional sampling ←OR⇒	Micropurge sampling
Height of water column (H = TD – DTW) Conversion value (CV)* x 1 Well volume = H x CV = ga 3 Well volumes = = ga Purge method (B = bailer, P = pump) B / P *Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia	Depth of pump placement (place mid-screen) Bubbles purged from flow cell? Is drawdown >0.3 feet Was passive sampling used? Flowrate = mL/m ID number from controller console #
Field Test(s) Stability Result Result Performed Range (3 min) (6 m Temperature (°C) +/- 3%) 23/2/2/3 Spec. Cond (μmhos) +/- 3% 0.900 0.9 D.O. (mg/L) +/- 10%** 5.34/2 11. pH +/- 0.1 6.63 6.6 ORP (mV) +/- 10 mV** 92.1 92.1 Turbidity (NTU) +/- 10%** 192.1 92.1 H ₂ S (mg/L) Fe ²⁺ (mg/L) Check stability after three readings and every reading	in) (9 min) (12 min) (15 min) (18 min) (21 min) 35 23,69 20 0,925 02 10,91 07 6,64 (1.6 201.4)
**Only one of these parameters must reach stability. Observations: Volume of water purged from well: Sample Date: Olivery of Sample Sample Was metals sample filtered prior to preservation? Color of water before filtration: Reaction upon addition of preservatives? Appearance of Water: Clear Slightly Turbid/Turbid/Well condition: Signature: Observations: Clary Sightly Turbid/Turbid/Well condition: Signature: Observations: Clary Sightly Turbid/Turbid/Well condition: Signature: Observations: Observations: Clary Sightly Turbid/Turbid/Well condition: Observations: Observ	Time: 12: 45 (military time) YES NO method: 0.45 μm cartridge / other: tration: // Α

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E-001/003
Sample I.D.: MW- 153	Well Location:
Monitoring Well Data	Sample Types (circle all applicable)
Well Material (PVC/SS/Tefle	on) Monitoring Well
Inside Diameter, in. (1 2 4 6)	Grab/Composite
Stick up or stick down height	Split Sample
Total depth of well (TD) 20.76	Duplicate (Duplicate ID: Dup - 02)
Depth to product	(M S/ MSD)
Depth to water (DTW) 1.92	Other
Conventional sampling ←OR⇒	Micropurge sampling
Height of water column	Depth of pump placement
(H = TD - DTW)	(place mid-screen)
Conversion value (CV)* x	Bubbles purged from flow cell? (Y) N
1 Well volume = H x CV = ga	Is drawdown >0.3 feet Y/N
3 Well volumes = g	Was passive sampling used? Y/N
Purge method	Flowrate = mL/m
(B = bailer, P = pump) B/P	ID number from controller console # 165
*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia	
Field Test(s) Stability Result Res	ult Result Result Result Result
Performed Range (3 min) (6 m	
Temperature (°C) +/- 3% 20. 7 19	
Spec. Cond (µmhos) +/- 3% Q.151 1	0 -1 1/1/
D.O. (mg/L) +/- 10%** 9.91 q.4	
pH +/- 0.1 7.11 7.0	
ORP (mV) +/- 10 mV** 173.2 178	
Turbidity (NTU) +/- 10%**	
H_2S (mg/L)	
Fe^{2+} (mg/L)	
Check stability after three readings and every reading	thereafter until achieved.
**Only one of these parameters must reach stability.	
1	
Observations:	
Volume of water purged from well: 0.5 gallons	
Sample Date: 6 / 16 / OG Sample	Γime: <u>β</u> : <u>25</u> (military time)
Was metals sample filtered prior to preservation?	YES NO method: 0.45 μm cartridge / other:
Color of water before filtration: After fil	tration: NA
Reaction upon addition of preservatives? YES	NO explain:
Appearance of Water: (Clear/Slightly Turbid/Turbid/	
Well condition: Your	
1)0-1-	
Signature: Kathy Eak	Date: 6-19-09

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E-001/003
Sample I.D.: MW- 302	Well Location:
Well Material Inside Diameter, in. Stick up or stick down height Total depth of well (TD) Depth to product Depth to water (DTW) Monitoring Well Data (PVC/SS/7) (1 2 4) 37,6/	0.00 (0
Conventional sampling ←OF	R⇒ Micropurge sampling
Height of water column (H = TD – DTW) Conversion value (CV)* x 1 Well volume = H x CV = ga 3 Well volumes = = ga Purge method (B = bailer, P = pump) B / P	Depth of pump placement (place mid-screen) Bubbles purged from flow cell? Is drawdown >0.3 feet Was passive sampling used? Flowrate =
Performed Range (3 min) (1 min) (2 min) (3 min) (4 min)	Result Result<
Color of water before filtration: Afte Reaction upon addition of preservatives? YES Appearance of Water: (Flear)Slightly Turbid/Turbud/	ons ole Time: 13: 45 (military time) YES NO method: 0.45 µm cartridge / other: or filtration: MA NO explain: bid/Very Turbid)
Signature: Kathy Est	Date: 6-(9-09

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E-001/003
Sample I.D.: MW- 166	Well Location:
Well Material Inside Diameter, in. Stick up or stick down height Total depth of well (TD) Depth to product Depth to water (DTW) Mell Material (PVC/SS/Tefle	Sample Types (circle all applicable) Monitoring Well Grab/Composite Split Sample Duplicate (Duplicate ID:) MS/MSD Other
Conventional sampling ←OR⇒	Micropurge sampling
Height of water column (H = TD – DTW) Conversion value (CV)* x 1 Well volume = H x CV = ga 3 Well volumes = = ga Purge method	Depth of pump placement (place mid-screen) Bubbles purged from flow cell? Is drawdown >0.3 feet Was passive sampling used? Flowrate = ID number from controller console /// /// /// /// /// /// ///
Spec. Cond (µmhos) +/- 3% 0.948 0.0	in) (9 min) (12 min) (15 min) (18 min) (21 min) 2.87 16.67 16.2 0.966 18 7.17 1.3 205,4
**Only <u>one</u> of these parameters must reach stability. <u>Observations:</u> Volume of water purged from well: 0.5 gallons	Time: <u> </u>

Capility Names CD Company Allican Plant 10	VEI Project # 2820F 001/002
Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E-001/003 Well Location:
Sample I.D.: MW- 166 D	well Location:
Monitoring Well Data Well Material (PVC/SS/Teffel Inside Diameter, in. (1246) Stick up or stick down height Total depth of well (TD) Depth to product Depth to water (DTW) 13.75	Sample Types (circle all applicable) Monitoring Well Grab/Composite Split Sample Duplicate (Duplicate ID:) MS/MSD Other
Conventional sampling ←OR⇒	Micropurge sampling
Height of water column (H = TD - DTW) Conversion value (CV)* x 1 Well volume = H x CV = ga 3 Well volumes = ga Purge method	Depth of pump placement (place mid-screen) Bubbles purged from flow cell? Is drawdown >0.3 feet Was passive sampling used? Flowrate = mL/mi ID number from controller console # 139
	in) (9 min) (12 min) (15 min) (18 min) (21 min) SS 17.38 806 0, 79 66 10.72 0 7.12 0 212, 3
Observations: Volume of water purged from well: Sample Date: \[\lambda \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	tration:

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E-001/003
Sample I.D.: MW- 165 S	Well Location:
Well Material Inside Diameter, in. Stick up or stick down height Total depth of well (TD) Depth to product Depth to water (DTW) Monitoring Well Data (PVC/SS/Tefle (1246) (1246) (19,45)	Sample Types (circle all applicable) Monitoring Well Grab/Composite Split Sample Duplicate (Duplicate ID:) MS/MSD Other
Conventional sampling ←OR⇒	Micropurge sampling
Height of water column (H = TD – DTW) Conversion value (CV)* x 1 Well volume = H x CV = gz 3 Well volumes = = gz Purge method (B = bailer, P = pump) B / P *Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia	Depth of pump placement (place mid-screen) Bubbles purged from flow cell? Is drawdown >0.3 feet Was passive sampling used? Flowrate = mL/mi ID number from controller console
Field Test(s) Stability Result R	$\frac{(9 \text{ min})}{0} = \frac{(12 \text{ min})}{9.40} = \frac{(12 \text{ min})}{9.33} = \frac{(18 \text{ min})}{9.33}$
The state of the s	Time: 11: 50 (military time) YES NO method: 0.45 μm cartridge / other: tration: Λ

Facility Name: GP - Former Allison Pl	ant 10	KEI Project #: 2829E-001/003	
Sample I.D.: MW- 165 D		Well Location:	
Monitoring Well Data	2	Sample Types (cir	cle all applicable)
	PVC/SS/Teflor	ворительный выправления высти выправления выправления выправления выправления выправления	1 1 1
Inside Diameter, in.	(1246)	Grab/Composite	
Stick up or stick down height		Split Sample	
	46.27	Duplicate (Duplicate ID: _)
Depth to product	(MS/MSD	and the second s
Depth to water (DTW)	13,32	Other	
Depth to water (D177)	13,50		
Conventional sampling	←OR⇒	Micropurge sar	mpling
Height of water column	 -	Depth of pump placement	
(H = TD - DTW)		(place mid-screen)	41.0
Conversion value (CV)* x	_F	Bubbles purged from flow cell?	(Y)/N
1 Well volume = H x CV =		s drawdown >0.3 feet	Y/N
3 Well volumes =		Vas passive sampling used?	Y(N)
Purge method		lowrate =	mL/m
(B = bailer, $P = pump$) B / P	1 1	D number from controller console	
*Conversion values (gal/ft): 0.75" dia =			
"Conversion values (gai/it). 0.73 dia –	- 0.023, 1 ula -	- 0.04, 2 dia - 0.10, 4, dia - 0.03	0 - 1.47
Field Test(s) Stability	Result Resul	t Result Result Result	Result Result
•	3 min) (6 mir		(18 min) (21 min)
4	0.91 10.5		110 11111111111111111111111111111111111
· · · /		N 1-11-	**************************************
D.O. (mg/L) +/- 10%**	588 0.66 4.21 2.64		***************************************
	7.38 7.3		
1	5a.3 - 7a.		
Turbidity (NTU) +/- 10%**	30.7	1 -83,3 -10,1 -13,3	,
$H_2S (mg/L)$			***************************************
$Fe^{2+} (mg/L)$			
Check stability after three readings and of	every reading th	pereafter until achieved	
**Only one of these parameters must rea		ioroditor diffir domovod.	
Only one of those parameters must rec	don stability.		
Observations:			
Volume of water purged from well:0	5 gallons		
Sample Date: 6/18/09	Sample Ti	me: 12:15 (military time)	
Was metals sample filtered prior to prese			idge / other
Color of water before filtration:			id50 / Odioi.
Reaction upon addition of preservatives			
Appearance of Water: (Clear/\$lightly T			PARTIE DE PROPERTIE LA CONTRACTOR DE LA
Well condition:	· ·		
, Joech			
Signature: Kathy Fak		Date: 6-(8-09	
		With the second	THE RESIDENCE OF THE PARTY OF T

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E-001/003
Sample I.D.: MW- 164	Well Location:
· · · · · · · · · · · · · · · · · · ·	· >
Monitoring Well Data	Sample Types (circle all applicable)
Well Material (PVC/SS/Tefl	enteriorente anticoloris de la constitución de la c
Inside Diameter, in. (1246)	Grab/Composite
Stick up or stick down height	Split Sample
Total depth of well (TD)	Duplicate (Duplicate ID:)
Depth to product	MS/MSD
Depth to water (DTW)	Other
Depth to water (D1 W)	Other
Conventional sampling ←OR⇒	Micropurge sampling
Height of water column	Depth of pump placement
(H = TD - DTW)	
· · · · · · · · · · · · · · · · · · ·	
Conversion value (CV)* x	Bubbles purged from flow cell? Yi/N Yi/N
1 Well volume = H x CV = ga	Is drawdown >0.3 feet Yy/N
3 Well volumes = g	Was passive sampling used? Y(N)
Purge method	Flowrate = $\frac{\text{mL/m}}{}$
(B = bailer, P = pump) B / P	ID number from controller console #/65
*Conversion values (gal/ft): 0.75 " dia = 0.023 , 1" dia	a = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47
Field Test(s) Stability Result Res	<u>sult Result Result Result Result Result</u>
Performed Range (3 min) (6 m	
Temperature (°C) +/- 3% 16.74 15.	
Spec. Cond (μmhos) +/- 3% 0.859 0.8	347 0.849
D.O. (mg/L) +/- 10%** 3.62, 2,-	11 2.13
pH +/- 0.1 7.39 7.2	7,19
ORP (mV) +/- 10 mV** 66.8 66.	9 66.9
Turbidity (NTU) +/- 10%**	The state of the s
H ₂ S (mg/L)	
$Fe^{2+} (mg/L)$	
Check stability after three readings and every reading	thereafter until achieved
**Only one of these parameters must reach stability.	therearter until aemeved.
only one of these parameters must reach stability.	
Observations:	
Volume of water purged from well: 0.5 gallons	
Sample Date: $6/8/9$ Sample	Time 12.1/)(1/1/2017)
Sample Date: 0/18/00/ Sample	Time: 15: 10 (mintary time)
Was metals sample filtered prior to preservation?	YES NO method: 0.45 μm cartridge / other:
Color of water before filtration: MA After fi	Itration: VI
Reaction upon addition of preservatives? YES	
Appearance of Water: (Clear/S)lightly Turbid/Turbid/	Very Turbid)
Well condition:	
VO	
Signature: Kuthy Coll	Date: 6-18-09

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E-001/003
Sample I.D.: MW- / 73	Well Location:
Well Material (PVC/SS/Teflor Inside Diameter, in. (1246) Stick up or stick down height Total depth of well (TD) Depth to product Depth to water (DTW) Monitoring Well Data (PVC/SS/Teflor Inside Data	Sample Types (circle all applicable) Monitoring Well Grab/Composite Split Sample Duplicate (Duplicate ID:) MS/MSD Other
Conventional sampling ←OR⇒	Micropurge sampling
Height of water column (H = TD - DTW) Conversion value (CV)* x 1 Well volume = H x CV = ga 3 Well volumes = = ga Purge method	Depth of pump placement (place mid-screen) Bubbles purged from flow cell? Is drawdown >0.3 feet Was passive sampling used? Flowrate = mL/m ID number from controller console 14.0 (Y) N (Y) N
D.O. (mg/L) +/- 10%** 4.85 4.2 pH +/- 0.1 7.44 7.3 ORP (mV) +/- 10 mV** 71.6 72.9 Turbidity (NTU) +/- 10%** H ₂ S (mg/L) Fe ²⁺ (mg/L) Check stability after three readings and every reading	in) (9 min) (12 min) (15 min) (18 min) (21 min) 48 16.45 8 4.05 4 7.31 9 74.1
	O explain:

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E-001/003	
Sample I.D.: 100 - JW -	Well Location:	
Monitoring Well Data	Sample Types (circle all applicable)	
Well Material (PVC/SS/Tefl	managanananananananan managan managanan managan managan managan managan managan managan managan managan managan	
Inside Diameter, in. (1246)	Grab/Composite	
Stick up or stick down height	Split Sample	
Total depth of well (TD) 14.71	Duplicate (Duplicate ID:)	
Depth to product	MS/MSD	
Depth to water (DTW)	Other	
Departo water (DT W)	Other	
Committee of committee of the committee	Miawanuwaa samulina	
Conventional sampling ←OR⇒	Micropurge sampling	
Height of water column	Depth of pump placement (place mid-screen) 12.0	
(H = TD - DTW)		
Conversion value (CV)* x	Bubbles purged from flow cell? (Y/N)	
1 Well volume = H x CV = g	Is drawdown >0.3 feet (Y)/ N	
3 Well volumes = g	Was passive sampling used? Y/N	
Purge method	Flowrate = mL/m	
(B = bailer, P = pump) B/P	ID number from controller console # \(\lambda\)	
*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia	a = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47	
Field Test(s) Stability Result Res		
Performed Range (3 min) (6 m		
Temperature (°C) +/- 3% 17.74 17.	37 16.97	
Spec. Cond (μmhos) +/- 3% <u>0.630 0.0</u>	0.617	
D.O. (mg/L) +/- 10%** 1.92 1.5		
pH .+/- 0.1 <u>7.04</u> 7.0	00 6.97	
ORP (mV) +/- 10 mV** -120.5 -118	116,0	
Turbidity (NTU) +/- 10%**		
H_2S (mg/L)	<u> </u>	
Fe^{2+} (mg/L)	AND	
Check stability after three readings and every reading	thereafter until achieved.	
**Only one of these parameters must reach stability.		
Quite and	_M&	
Observations:		
Volume of water purged from well: gallons		
Sample Date: $6 / 18 / 09$ Sample	Time: 13:55 (military time)	
Was metals sample filtered prior to preservation?	YES NO method: 0.45 μm cartridge / other:	
Color of water before filtration: NH After fi	tration: NH	
Reaction upon addition of preservatives? YES (1	NO explain:	
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)		
Well condition:		
Signature: Kouly Eck	Date: 6-18-09	

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E-001/003
Sample I.D.: MW- 63	Well Location:
Well Material Inside Diameter, in. Stick up or stick down height Total depth of well (TD) Depth to product Depth to water (DTW) Monitoring Well Data (PVC/SS/Teflo (1 2 4 6) (1 2 4 6) (1 2 4 6) (1 2 4 6) (1 2 4 6) (1 2 4 6) (1 2 4 6) (1 2 4 6) (1 2 4 6) (1 2 4 6)	Sample Types (circle all applicable) Monitoring Well Grab/Composite Split Sample Duplicate (Duplicate ID:) MS/MSD Other
Conventional sampling ←OR⇒	Micropurge sampling
Height of water column (H = TD - DTW) Conversion value (CV)* x 1 Well volume = H x CV = ga 3 Well volumes = = ga Purge method	Depth of pump placement (place mid-screen) Bubbles purged from flow cell? Is drawdown >0.3 feet Was passive sampling used? Flowrate = mL/m ID number from controller console # 6.5
Field Test(s) Stability Result Result Performed Range (3 min) (6 m Temperature (°C) +/- 3% 17.77 17. Spec. Cond (μmhos) +/- 3% 0.600 0.5 D.O. (mg/L) +/- 10%** 3.04 3.3 pH +/- 0.1 7.03 7.0 ORP (mV) +/- 10 mV** 91.0 91. Turbidity (NTU) +/- 10%** — — H ₂ S (mg/L) — — —	in) (9 min) (12 min) (15 min) (18 min) (21 min) 68 17.23 17.02 99 0.593 0.590 12 2.39 2.36 0 696 6.94
Check stability after three readings and every reading **Only one of these parameters must reach stability. Observations: Volume of water purged from well: 5 gallons Sample Date: 6 / 18 / 09 Sample To Sample To Sample To Sample To Preservation? Yes Color of water before filtration: After filterection upon addition of preservatives? YES Appearance of Water: Clear/Slightly Turbid/Turbid/Well condition:	Fime: 19: 15 (military time) ES NO method: 0.45 μm cartridge / other: tration: ΛΑ explain:
Signature: ACUMY CCK	Date: 6107

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E-001/003	
	Well Location:	
Sample I.D.: MW- IW-2	Well Location.	
NA XXV-II D -4-	Cample Types (airele all appliachle)	
Monitoring Well Data Well Material (PVC/SS/Teflet)	Sample Types (circle all applicable) on) Monitoring Well	
	Grab/Composite	
· · · · · · · · · · · · · · · · · · ·	Split Sample	
Stick up or stick down height	Duplicate (Duplicate ID:)	
Total depth of well (TD) Depth to product	MS/MSD	
Depth to product	Other	
Depth to water (DTW)	Outer	
Conventional sampling \Leftarrow OR \Rightarrow	Micropurge sampling	
Height of water column	Depth of pump placement	
(H = TD - DTW)	(place mid-screen) 14,0	
Conversion value (CV)* x	Bubbles purged from flow cell? (Ý) N	
1 Well volume = H x CV = ga	Is drawdown >0.3 feet YY N	
3 Well volumes = g	Was passive sampling used? Y/N	
Purge method	Flowrate = mL/mi	
(B = bailer, P = pump) B/P	ID number from controller console # 165	
*Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia	a = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47	
Field Test(s) Stability Result Res	ult Result Result Result Result Result	
Performed Range (3 min) (6 m		
Temperature (°C) +/- 3% 9,8/ 18,	64 17.70	
Spec. Cond (µmhos) +/- 3% 0.627 0.4	09 0.597	
D.O. (mg/L) +/- 10%** 5.90 6.8		
pH +/- 0.1 7.30 7.6		
ORP (mV) +/- 10 mV**)65.4 173	4 175.4	
Turbidity (NTU) +/- 10%**		
$H_2S (mg/L)$		
Fe^{2+} (mg/L)		
Check stability after three readings and every reading	thereafter until achieved.	
**Only one of these parameters must reach stability.		
1 y 1		
Observations:		
Volume of water purged from well: 0.5 gallons		
Sample Date: 6/18/09 Sample	Time: 15:00 (military time)	
Was metals sample filtered prior to preservation?		
Color of water before filtration: NA After filtration: After filtration:		
Reaction upon addition of preservatives? YES N	~ "	
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)		
Well condition: Case		
1000		
Signature: Kothy Eck	Date: 6-18-09	

and the second s	
Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E-001/003
Sample I.D.: MW-151	Well Location:
Monitoring Well Data Well Material (PVC/SS/Teflet Inside Diameter, in. (1246) Stick up or stick down height Total depth of well (TD) Depth to product Depth to water (DTW) Conventional sampling ←OR⇒ Height of water column (H=TD-DTW) Conversion value (CV)* x 1 Well volume = H x CV = garage 3 3 Well volumes = garage	Sample Types (circle all applicable) Monitoring Well Grab/Composite Split Sample Duplicate (Duplicate ID: MS/MSD Other Micropurge sampling Depth of pump placement (place mid-screen) Bubbles purged from flow cell? Is drawdown >0.3 feet Was passive sampling used? Y/N
Purge method (B = bailer, P = pump) B/P	Flowrate = mL/m
(B = bailer, P = pump) B / P * Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia	ID number from controller console # 165
Field Test(s) Performed Range (3 min) (6 m Temperature (°C) +/- 3% 5.29 14. Spec. Cond (μmhos) +/- 3% 0.540 0.5 D.O. (mg/L) +/- 10%** 0.18 0.3 pH +/- 0.1 7.31 7.3 ORP (mV) +/- 10 mV** 137.9 130 Turbidity (NTU) +/- 10%** H ₂ S (mg/L) Fe ²⁺ (mg/L) Check stability after three readings and every reading **Only one of these parameters must reach stability.	ult Result Result Result Result (21 min) (9 min) (12 min) (15 min) (18 min) (21 min) (15 min) (18 min) (21 min) (18 min) (21 min) (18 min) (21 min) (18 min) (21 min)
Observations: Volume of water purged from well: Sample Date: (8/89 Sample The Sample of Samp	tration:

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E-001/003
Sample I.D.: MW- 156	Well Location:
Well Material (PVC/SS/Teflet Inside Diameter, in. (1246) Stick up or stick down height Total depth of well (TD) Depth to product Depth to water (DTW) Monitoring Well Data (PVC/SS/Teflet Inside Data) (1246) [1246] [1246] [1246] [1246] [1246]	Sample Types (circle all applicable) Monitoring Well Grab/Composite Split Sample Duplicate (Duplicate ID:) MS/MSD Other
Conventional sampling ←OR⇒	Micropurge sampling
Height of water column (H = TD – DTW) Conversion value (CV)* x 1 Well volume = H x CV = ga 3 Well volumes = = ga Purge method	Depth of pump placement (place mid-screen) Bubbles purged from flow cell? Is drawdown >0.3 feet Was passive sampling used? Flowrate = mL/m ID number from controller console 14.0 14.0 14.0 14.0 14.0 14.0 15.1 16.5
Field Test(s) Stability Result Resul	11 128.3 (9 min) (12 min) (15 min) (18 min) (21 min) (15 min) (18 min) (21 min) (21 min) (15 min) (18 min) (21
**Only one of these parameters must reach stability. Observations: Volume of water purged from well: Sample Date: (b) / 8 / 9 Sample Was metals sample filtered prior to preservation? Color of water before filtration: After fil	Time: 15:50 (military time) YES NO method: 0.45 μm cartridge / other: tration: A

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E-001/003
Sample I.D.: MW- 147 AR	Well Location:
Well Material Inside Diameter, in. Stick up or stick down height Total depth of well (TD) Depth to product Depth to water (DTW) Monitoring Well Data (PVC/SS/Tefle (PVC/S	Sample Types (circle all applicable) Monitoring Well Grab/Composite Split Sample Duplicate (Duplicate ID:) MS/MSD Other
Conventional sampling ←OR⇒	Micropurge sampling
Height of water column (H = TD - DTW) Conversion value (CV)* x 1 Well volume = H x CV = ga 3 Well volumes = ga Purge method	Depth of pump placement (place mid-screen) Bubbles purged from flow cell? Is drawdown >0.3 feet Was passive sampling used? Flowrate = mL/m ID number from controller console # 165
Field Test(s) Stability Result (3 min) Res Performed Range (3 min) (6 min) Temperature (°C) +/- 3% 17.38 16.4 Spec. Cond (μmhos) +/- 3% 2.151 2.2 D.O. (mg/L) +/- 10%** 2.86 2.6 pH +/- 0.1 7.06 6.9 ORP (mV) +/- 10 mV** -68.2 73 Turbidity (NTU) +/- 10%** -68.2 73 H ₂ S (mg/L) Fe ²⁺ (mg/L) -68.2 -68.2 -68.2	19 16.09 15.94 19 2.298 2.306 9 2.35 1.87 8 6.94 6.93
Check stability after three readings and every reading **Only one of these parameters must reach stability. Observations: Volume of water purged from well:	Time: 17: 10 (military time) YES NO method: 0.45 µm cartridge / other: Itration: 10 explain: Very Turbid)
Signature: Kathy ECK	Date: 6-18-09

			,				
Facility Name: GP –	Former Allison	Plant 10	KEI Project	#: 2829E-0	001/003		
Sample I.D.: MW-	132 R		Well Location	on:			
Mon Well Material Inside Diameter, in. Stick up or stick down Total depth of well (T Depth to product Depth to water (DTW	D)	18.95	Gra Spli Dur	nitoring We b/Composit it Sample blicate (Dup /MSD	ell e	rcle all app	olicable)
Convention	al sampling	(≠OR=		Micr	opurge sai	mpling	
Height of water colum (H = TD - DTW) Conversion value (CV 1 Well volume = H x 3 Well volumes = Purge method (B = bailer, P = pur *Conversion values (g	mp) B/P	පුද පුද	Depth of pun (place mid Bubbles purg Is drawdown Was passive Flowrate = ID number fr	np placement l-screen) ged from flo >0.3 feet sampling us	w cell? sed? er console	# 16	(1)/N (1)/N Y/(1) mL/m
Field Test(s) Performed Temperature (°C) Spec. Cond (µmhos) D.O. (mg/L) pH ORP (mV) Turbidity (NTU) H ₂ S (mg/L) Fe ²⁺ (mg/L)	Stability Range +/- 3% +/- 3% +/- 10%** +/- 0.1 +/- 10 mV** +/- 10%**	1.389 1.3 2.47 1.4 7.33 7.3 130.2 132	nin) (9 min) 38 17.23 82 1.377 18 1.22 84 7.21 1.9 133.7	1.367 1.23 7.19 134.0	Result (15 min)	Result (18 min)	Result (21 min)
Check stability after the **Only one of these parameters: Observations: Volume of water purges Sample Date: Was metals sample filled Color of water before: Reaction upon addition Appearance of Water: Well condition: Signature: Signature:	ed from well: 6 8 /09 tered prior to prefiltration: //	gallons Sample esservation? After fi es? YES	Time: 6 : 4 YES NO : 1 Itration: 0 NO explain: Very Turbid)	(S (militar method: 0.4	-5 μm cartr	ridge / other	r:
Signature: XXXX	1 828		Date: (7-18-89			

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E-001/003
Sample I.D.: MW- 133 R	Well Location:
Well Material (PVC/SS/Tef. Inside Diameter, in. (1246) Stick up or stick down height Total depth of well (TD) /5, 91 Depth to product Depth to water (DTW) 5,87	Sample Types (circle all applicable) Monitoring Well Grab/Composite Split Sample Duplicate (Duplicate ID:) MS/MSD Other
Conventional sampling ←OR⇒	Micropurge sampling
Height of water column (H = TD – DTW) Conversion value (CV)* x 1 Well volume = H x CV = ga 3 Well volumes = = ga Purge method (B = bailer, P = pump) B / P *Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia	Depth of pump placement (place mid-screen) Bubbles purged from flow cell? Is drawdown >0.3 feet Was passive sampling used? Flowrate = mL/m ID number from controller console # 1(2)
Performed Range (3 min) (6 min) Temperature (°C) +/- 3% 17.80 17 Spec. Cond (μmhos) +/- 3% 0.792 0. D.O. (mg/L) +/- 10%** 3.27 2.7 pH +/- 0.1 7.33 7.4	27 7.23 7.26 4.5 125.5 126.1
Was metals sample filtered prior to preservation? Color of water before filtration: After filtration:	Time: 16 : 25 (military time) YES NO method: 0.45 μm cartridge / other: Attraction: NO explain:

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E-001/003
Sample I.D.: MW-/67 5	Well Location:
Well Material Inside Diameter, in. Stick up or stick down height Total depth of well (TD) Depth to product Depth to water (DTW) Well Data (PVC/SS/Teflo (1246) (1246) 21.77 11.13	Sample Types (circle all applicable) Monitoring Well Grab/Composite Split Sample Duplicate (Duplicate ID:) MS/MSD Other
Conventional sampling ←OR⇒	Micropurge sampling
Height of water column (H = TD - DTW) Conversion value (CV)* x 1 Well volume = H x CV = ga 3 Well volumes = = ga Purge method	Depth of pump placement (place mid-screen) Bubbles purged from flow cell? Is drawdown >0.3 feet Was passive sampling used? Flowrate = mL/m: ID number from controller console
Field Test(s)StabilityResultResultPerformedRange(3 min)(6 mTemperature (°C)+/- 3%[6.5]16.3Spec. Cond (μmhos)+/- 3%0.8520.8D.O. (mg/L)+/- 10%**10.209.8pH+/- 0.16.936.8ORP (mV)+/- 10 mV**155.5157Turbidity (NTU)+/- 10%**H ₂ S (mg/L)Fe²+ (mg/L)Check stability after three readings and every reading**Only one of these parameters must reach stability.	in) (9 min) (12 min) (15 min) (18 min) (21 min) 60 16.17 16.06 60 0.879 0.890 62 8.78 8.45 69 6.86 6.84 .1 157.7 158.4
Observations: Volume of water purged from well:	tration: A

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E-001/003
Sample I.D.: MW- 167 D	Well Location:
Monitoring Well Data	Sample Types (circle all applicable)
Well Material (PVC/SS/Te	eflon) Monitoring Well
Inside Diameter, in. (1246	The state of the s
Stick up or stick down height	Split Sample
Total depth of well (TD) 32.50	Duplicate (Duplicate ID:)
Depth to product	MS/MSD
Denth to water (DTW)	Other
Departo water (DT W)	Other
Conventional sampling ←OR=	⇒ Micropurge sampling
Height of water column	Depth of pump placement
(H = TD - DTW)	(place mid-screen) 38.0
Conversion value (CV)* x	Bubbles purged from flow cell? $\frac{\sqrt{K}}{N}$
1 Well volume = $H \times CV = g_t$	Is drawdown >0.3 feet
3 Well volumes = g	Was passive sampling used?
Purge method	Flowrate = mL/mi
(B = bailer, P = pump) B / P	
*Conversion values (gal/ft): 0.75" dia = 0.023 1"	lia = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47
Conversion values (gai/1t). 0.75 dia - 0.025, 1 (ana = 0.04, $ana = 0.16$, $ana = 0.05$, $ana = 1.47$
Field Test(s) Stability Result Re	acult David David David David
	esult Result Result Result Result Result
	$\frac{\text{min}}{7.05} \frac{(9 \text{ min})}{16.95} \frac{(12 \text{ min})}{16.99} \frac{(15 \text{ min})}{17.09} \frac{(18 \text{ min})}{17.09}$
- · · · · · · · · · · · · · · · · · · ·	717 0.714 0.719 0.713
	3.58 <u>3.12</u> <u>3.01</u> <u>3.08</u> <u>7.01</u> <u>7.00</u> <u>7.01</u>
ORP (mV) +/- 10 mV** 201.9 18 Turbidity (NTU) +/- 10%**	Klery 16819 153,7 145,9
H ₂ S (mg/L)	
Fe ²⁺ (mg/L)	
Check stability after three readings and every readin **Only one of these parameters must reach stability	ig thereafter until achieved.
Only one of these parameters must reach stability	•
Observations:	
Volume of water purged from well: 0.5 gallon	
Sample Date: 6/19/09 Sample	e Time:(:00(military time)
Was metals sample filtered prior to preservation?	VFS NO method: 0.45 um contridors / others
Color of water before filtration: $\[\land A \]$ After f	filtration: A A
Reaction upon addition of preservatives? YES	
Appearance of Water: (Clear) Slightly Turbid/Turbid	
Well condition: Good Water wat	a vory ruroluj
2/0	
Signature: Xathu Ede	Date: 6-19-09
	Date. C (1 C)

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E-001/003
Sample I.D.: MW- 1695	Well Location:
Well Material Inside Diameter, in. Stick up or stick down height Total depth of well (TD) Depth to product Depth to water (DTW) Monitoring Well Data (PVC/SS/Tefl (1 2 4 6) 2 3, 2 3 8,12	Sample Types (circle all applicable) Monitoring Well Grab/Composite Split Sample Duplicate (Duplicate ID:) MS/MSD Other
Conventional sampling ←OR⇒	Micropurge sampling
Height of water column (H = TD - DTW) Conversion value (CV)* x 1 Well volume = H x CV = ga 3 Well volumes = = ga Purge method (B = bailer, P = pump) B / P *Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia	Depth of pump placement (place mid-screen) Bubbles purged from flow cell? Is drawdown >0.3 feet Was passive sampling used? Flowrate = mL/mi ID number from controller console # 165 a = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47
D.O. (mg/L) +/- $10\%**$ 2.39 3. pH +/- 0.1 6.93 6.2 ORP (mV) +/- $10 \text{ mV}**$ 34.2 40. Turbidity (NTU) +/- $10\%**$ = $10\%**$ Every reading Check stability after three readings and every reading	110 (9 min), (12 min) (15 min) (18 min) (21 min) 149 15.94 15.67 1518 0.812 0.810 143 3.86 4.10 159 6.86 6.85 14 42.0 40.9
Was metals sample filtered prior to preservation?	Time: 10: 40 (military time) YES NO method: 0.45 µm cartridge / other: Itration:

Facility Name: GP – Former Allison Plant 10	Plant 10 KEI Project #: 2829E-001/003		
Sample I.D.: MW- 169D	Well Location:		
Well Material (PVC/SS/Tefl Inside Diameter, in. (1246) Stick up or stick down height Total depth of well (TD) Depth to product Depth to water (DTW) Monitoring Well Data (PVC/SS/Tefl (PVC	Sample Types (circle all applicable) Monitoring Well Grab/Composite Split Sample Duplicate (Duplicate ID:) MS/MSD Other		
Conventional sampling ←OR⇒	Micropurge sampling		
Height of water column (H = TD - DTW) Conversion value (CV)* x 1 Well volume = H x CV = ga 3 Well volumes = = ga Purge method (B = bailer, P = pump) B / P *Conversion values (gal/ft): 0.75" dia = 0.023, 1" di	Depth of pump placement (place mid-screen) Bubbles purged from flow cell? Is drawdown >0.3 feet Was passive sampling used? Flowrate = ID number from controller console y N mL/m # (65)		
Spec. Cond (µmhos) +/- 3% 0.061 0.0	nin) (9 min) (12 min) (15 min) (18 min) (21 min) (65 15.30 15.2) 15.13 (5.66 086 0.522 0.677 0.742 0.749 .42 20.48 12.04 9.28 7.33 54 6.99 6.89 6.86 6.84 .1 -46.4 -60.9 -63.6 -65.2		
Observations: Volume of water purged from well: O gallons Sample Date: 6/19/09 Sample Was metals sample filtered prior to preservation? Color of water before filtration: 1 After filtration upon addition of preservatives? YES Appearance of Water: Clear Slightly Turbid/Turbid Well condition: 1 COUPP & CAPWAD	Time: 10:20 (military time) YES NO method: 0.45 μm cartridge / other: Itration: ΛΑ O explain: /Very Turbid)		

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E-001/003	
Sample I.D.: MW- 152	Well Location:	
`		
Well Material (PVC/SS/Teflet Inside Diameter, in. (1246) Stick up or stick down height Total depth of well (TD) (S, 38) Depth to product Depth to water (DTW)	Sample Types (circle all applicable) Monitoring Well Grab/Composite Split Sample Duplicate (Duplicate ID:) MS/MSD Other	
Conventional sampling ←OR⇒	Micropurge sampling	
Height of water column (H = TD - DTW) Conversion value (CV)* x 1 Well volume = H x CV = ga 3 Well volumes = ga Purge method	Depth of pump placement (place mid-screen) Bubbles purged from flow cell? Is drawdown >0.3 feet Was passive sampling used? Flowrate = mL/m ID number from controller console # 165	
Field Test(s) Stability Result Result	in) (9 min) (12 min) (15 min) (18 min) (21 min) 59 17.08 20 0.5 11 1	
**Only one of these parameters must reach stability. Observations: Volume of water purged from well: Sample Date: 6 / 19/09 Sample Was metals sample filtered prior to preservation? Color of water before filtration: Reaction upon addition of preservatives? YES N	Fime: 11 : 25 (military time) YES NO method: 0.45 μm cartridge / other: tration: 17	

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E-001/003		
Sample I.D.: MW- 150	Well Location:		
Bampie i.b.: 1411 / 00			
Monitoring Well Data Well Material (PVC/SS/Teffe) Inside Diameter, in. (1 2 4 6) Stick up or stick down height Total depth of well (TD) // 2 7 Depth to product Depth to water (DTW) // 5 Conventional sampling ←OR⇒	Sample Types (circle all applicable) Monitoring Well Grab/Composite Split Sample Duplicate (Duplicate ID: MS/MSD Other Micropurge sampling		
Height of water column	Depth of pump placement		
(H = TD - DTW)	(place mid-screen) 13.25		
Conversion value (CV)* x	Bubbles purged from flow cell? (Y/N)		
1 Well volume = H x CV = g	Is drawdown >0.3 feet (Y)/N		
	Was passive sampling used?		
3 Well volumes = = gt Purge method	Flowrate = mL/m		
(B = bailer, P = pump) B/P	ID number from controller console # 165		
*Conversion values (gal/ft): 0.75 " dia = 0.023 , 1" dia			
Conversion values (gai/it). 0.75 dia = 0.025, 1 dia	1 0.04, 2 dia * 30.10, 4 dia 0.05, 0 dia 1.17		
Field Test(s) Stability Result Res	ult Result Result Result Result		
Performed Range (3 min) (6 m			
Temperature (°C) +/- 3% 16.6 16.	- 1		
	140 p. 134		
	1.26		
D.O. (mg/L) +/- 10%** 1.33 1.1 pH +/- 0.1 7.04 6.0	19 6.95		
	13 105		
ORP (mV) +/- 10 mV** +08.1 110 Turbidity (NTU) +/- 10%**	10 100		
$H_2S (mg/L)$	AND THE PROPERTY OF THE PROPER		
$Fe^{2+} (mg/L)$			
Check stability after three readings and every reading	thereafter until achieved.		
**Only one of these parameters must reach stability.			
Observations:			
Volume of water purged from well: 0.5 gallons			
	Time: 1:50(military time)		
Was metals sample filtered prior to preservation?			
Color of water before filtration: \mathcal{N} After fil			
Reaction upon addition of preservatives? YES	NO) explain:		
Appearance of Water: (Clear) Slightly Turbid/Turbid	Very Turbid)		
Well condition: good.			
1.1			
Signature: Karly Erk	Date: 6-19-09		

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E-001/003	
Sample I.D.: MW- 148 K	Well Location:	
Well Material (PVC/SS/Tefl Inside Diameter, in. (1246) Stick up or stick down height Total depth of well (TD)	on) Sample Types (circle all applicable) Monitoring Well Grab/Composite Split Sample Duplicate (Duplicate ID:	
Depth to product	MS/MSD	
Depth to water (DTW) 10.33	Other	
Depth to water (ETW)		
Conventional sampling ←OR⇒	Micropurge sampling	
Height of water column $(H = TD - DTW)$	Depth of pump placement (place mid-screen)	
Conversion value (CV)* x	Bubbles purged from flow cell? (Ŷ/N	
1 Well volume = $H \times CV = g$	Is drawdown >0.3 feet (Y)/N	
3 Well volumes = g	Was passive sampling used? Y (N)	
Purge method	Flowrate = mL/m	
(B = bailer, P = pump) B / P	ID number from controller console # 110.5	
*Conversion values (gal/ft): 0.75" dia = 0.023, 1" di		
Conversion various (ganto). 0.75 dia 0.025, 1 di		
Field Test(s) Stability Result Res		
Performed Range (3 min) (6 m		
	73 15.57 15.49	
Spec. Cond (μmhos) +/- 3% 0.976 0.9		
D.O. (mg/L) +/- 10%** 7.57 7.6		
pH +/- 0.1 7.22 7.1		
ORP (mV) +/- 10 mV** 83.7 \$(0.4 87.5 88.6	
Turbidity (NTU) +/- 10%**		
$H_2S (mg/L)$		
Fe^{2+} (mg/L)	v _.	
Check stability after three readings and every reading thereafter until achieved. **Only one of these parameters must reach stability.		
Observations:		
Volume of water purged from well: 0.5 gallons		
Sample Date: 6 / 9 / 09 Sample Time: 1 : 10 (military time)		
Was metals sample filtered prior to preservation? YES NO method: 0.45 µm cartridge / other:		
Color of water before filtration: <u>NA</u> After filtration: <u>NA</u>		
Reaction upon addition of preservatives? YES NO explain:		
Appearance of Water: (Clear/Slightly Turbid/Turbid/Very Turbid)		
Well condition: Good		
Signature: Kady Eck	Date: 6-19-09	

Facility Name: GP – Former Allison Plant 10	KEI Project #: 2829E-001/003	
Sample I.D.: MW-10-1R	Well Location:	
Monitoring Well Data Well Material (PVC/SS/Teflet Inside Diameter, in. (1246) Stick up or stick down height Total depth of well (TD) Depth to product Depth to water (DTW) 13.22	Grab/Composite Split Sample Duplicate (Duplicate ID: 100-03) MS/MSD Other	
Conventional sampling ←OR⇒	Micropurge sampling	
Height of water column (H = TD - DTW) Conversion value (CV)* x 1 Well volume = H x CV = ga 3 Well volumes = = ga Purge method (B = bailer, P = pump) B / P *Conversion values (gal/ft): 0.75" dia = 0.023, 1" dia	Depth of pump placement (place mid-screen) Bubbles purged from flow cell? Is drawdown >0.3 feet Was passive sampling used? Flowrate = mL/m ID number from controller console # 165 1 = 0.04, 2" dia = 0.16, 4" dia = 0.65, 6" dia = 1.47	
Field Test(s) Stability Result Result	ult Result Result Result Result	
Performed Range (3 min) (6 m		
Temperature (°C) +/- 3% 15,87 16,2 Spec. Cond (μmhos) +/- 3% 0,5 & 0 D.O. (mg/L) +/- 10%** 9,35 8.8 PH +/- 0.1 7,07 7.07 ORP (mV) +/- 10 mV** 159.3 16.2 Turbidity (NTU) +/- 10%** H ₂ S (mg/L) Fe ²⁺ (mg/L)	11 15,85 15,86 578 0,579 0.579 0 8,56 8,30	
Check stability after three readings and every reading	thereafter until achieved.	
**Only one of these parameters must reach stability. Observations: Volume of water purged from well:		
Signature: 4 CTV COR	Date: 6.19.09	